

Examples and Exercises

Directions. For problems 1-7, simplify. For problem 8, solve for x . You may need extra paper for your calculations.

1. $\frac{(xy^3)^2}{x^0y^5}$

5. $\frac{2M + M^{-1}}{1 + 2M^{-2}}$

2. $\frac{(AB)^4}{A^{-1}B^{-2}}$

6. $3\sqrt[3]{t^3 + 7(t^9)^{1/3}}$

3. $\frac{a^3b^{-1}}{\sqrt{a^{5/2}}}$

7. $\frac{2km^3 + k^2m}{km^{-1}}$

4. $2b^{-1}(b^2 + b) - 2$

8. $81^x = 3$